

((C)) For Official Use Only Scenario #1

- Set up
- Location

3

b7E

((C)) For Official Use Only Scenario #2

- Set up
- Location

4

b7E

CELL/BTD 004395

(S) For Official Use Only

StingRay Lab Exercises

b7E

(S) For Official Use Only

StingRay Lab Exercises

- Goal -
- Agenda

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CELL/GTD 004396

1

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StingRay Field Exercises

1

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StingRay Field Exercises

Goal —

- Agenda

2

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CELL/OTD 0043

1

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Scenario #3

- Set up

- Location

3

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Scenario #4

- Set up

- Location

4

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CELL/STD 004398

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Useful Acronyms



Acronyms

AMPS -- Advanced Mobile Phone Service
BSC -- Base Station Controller
BSID -- Base Station ID
BTS -- Base Transceiver Station
CDMA -- Code Division Multiple Access
DSSS -- Direct Sequence Spread Spectrum
DF -- Direction Finding
ESN -- Electronic Serial Number
FDMA -- Frequency Division Multiple Access
GSM -- Global Standard for Mobile Communication
HLR -- Home Location Register
IDEN -- Integrated Dispatch Enhanced Network
IMEI -- International Mobile Equipment Identity
IMSI -- International Mobile Subscriber Identity
MIN -- Mobile Identification Number
MSC/MSCO -- Mobile Switching Center/ Mobile Telephone Switching Office
NID -- Network Identification

CELL/GTD 004399



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Acronyms Cont'd

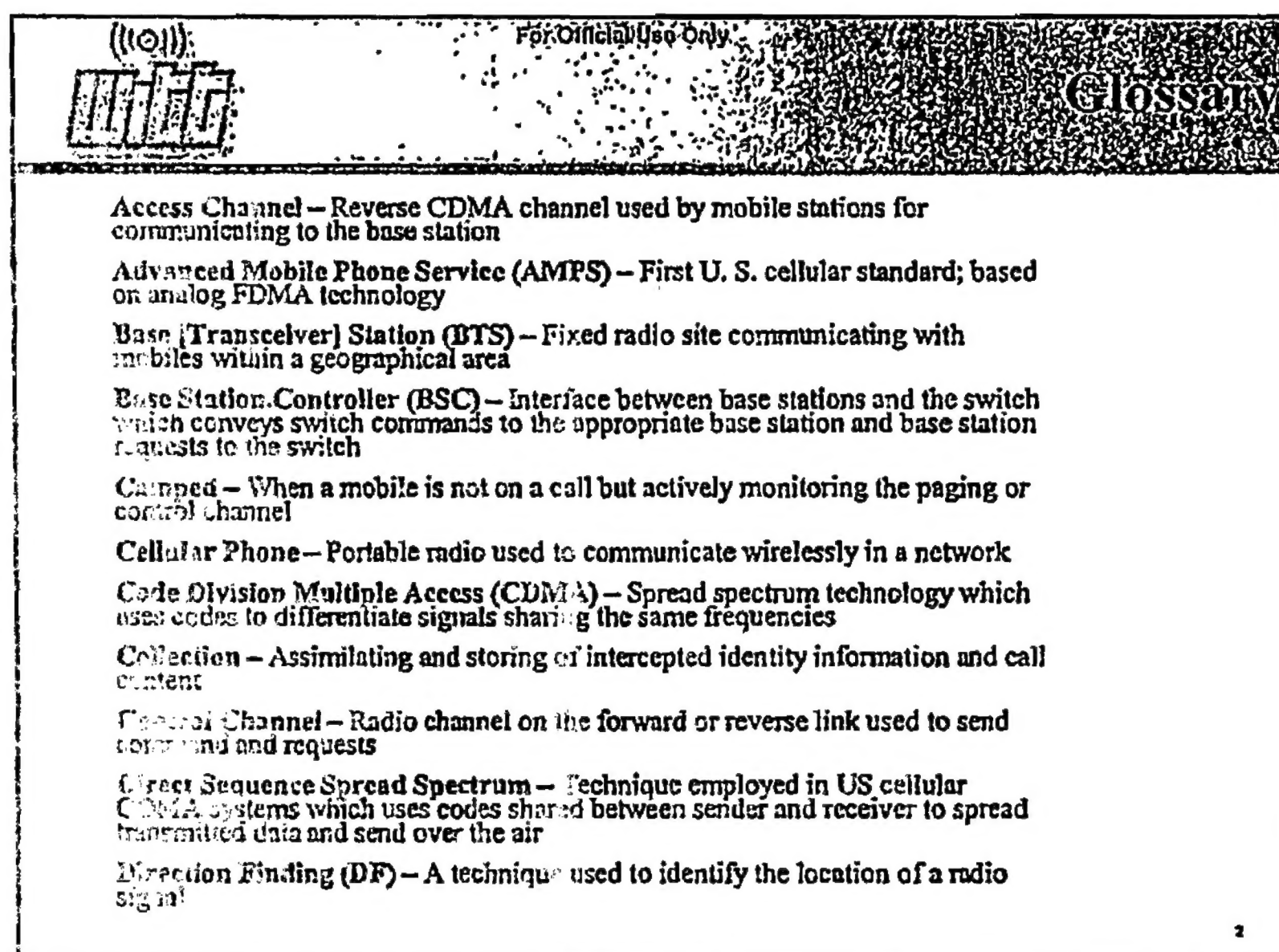
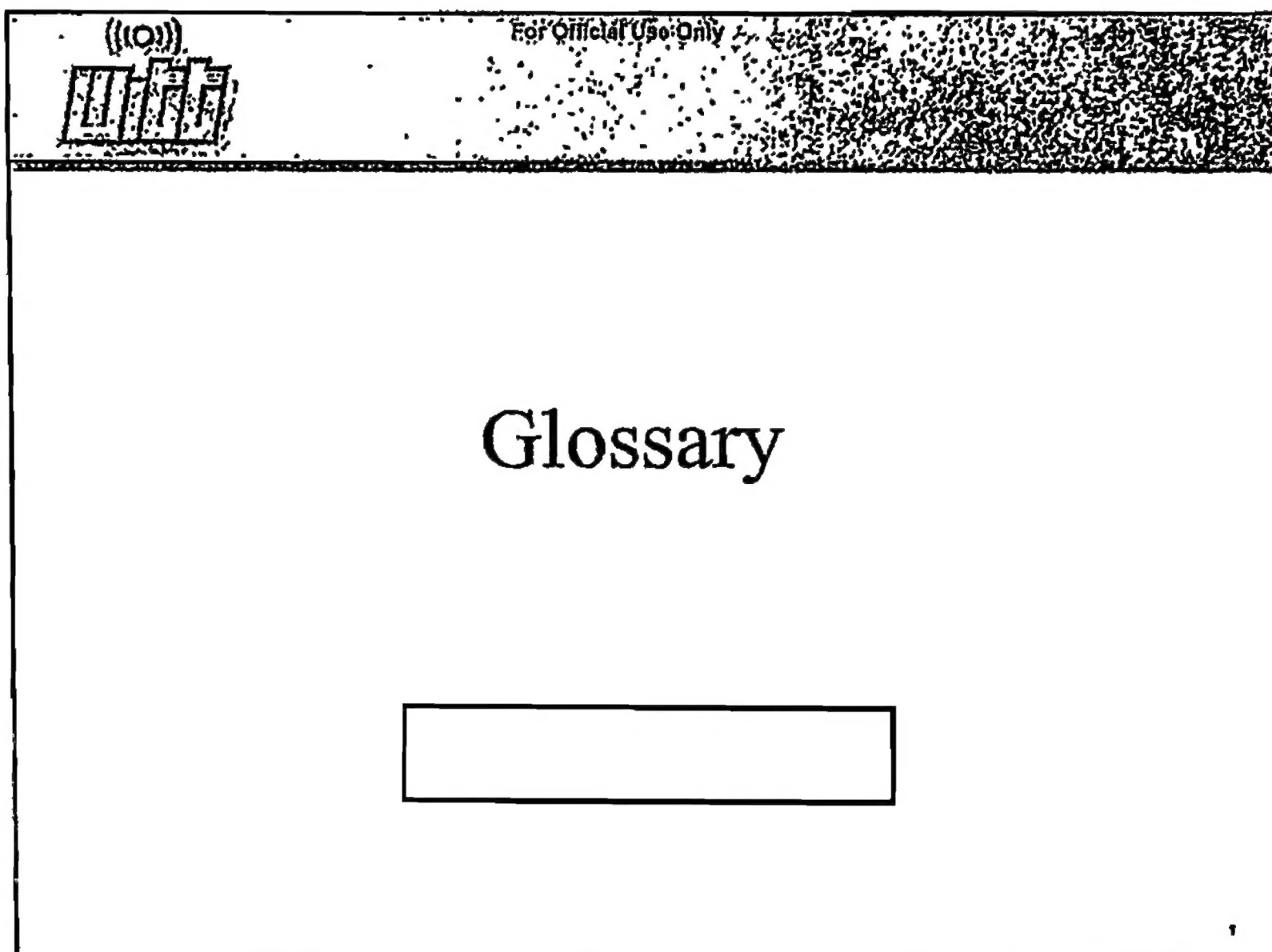
PA - Power Amplifier
PCS - Personal Communications Service
PN - Psuedo Noise
PSTN - Public Switched Telephone Network
PTT - Push-to-Talk
RF - Radio Frequency
SID - System Identification
TDMA - Time Division Multiple Access

TMSI - Temporary Mobile Subscriber Identity
VLR - Visitor Location Register
WITT - Wireless Intercept & Tracking Team

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CELL/OTD 004401

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Glossary Cont'd

Downlink - See Forward Link

E_c/I_o - Ratio (in dB) between the Pilot Channel signal energy and the total interference in the received bandwidth

Electronic Serial Number (ESN) - Unique serial number programmed into the memory of a mobile phone by the manufacturer

Forward Link - From the base station to the mobile

Frequency Division Multiple Access (FDMA) - Multiplexing technique which uses frequency to distinguish users

Global Standard for Mobile Communications (GSM) - Cellular technology utilizing TDMA techniques which originated in Europe

Home Location Register (HLR) - Database containing mobile subscriber information for locally registered mobiles

Idle - See Camped

Integrated Dispatch Enhanced Network (iDEN) - Proprietary cellular technology utilized by Nextel

Intercept - Reception of communications between a subject and his serving network

International Mobile Equipment Identity (IMEI) - Code uniquely identifying the mobile station hardware

International Mobile Subscriber Identity (IMSI) - Method of identifying stations in the land mobile service

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Glossary Cont'd

Handoff - Transferring communication with a mobile station from one base station to another

Long PN Code - 42-bit pseudo-random code used to uniquely identify CDMA mobile stations on the uplink

Mobile Identification Number (MIN) - Telephone number associated with a mobile phone

Mobile Station - See Cellular Phone

Mobile Switching Center (MSC) - Switch connecting the cellular network to the PSTN which coordinates call routing in a given service area

Mobile Telephone Switching Office (MTSO) - See Mobile Switching Center

Multinath - Radio signals from the transmitter arriving at the receiver via a number of different paths

Neighbor Channel - One of a group channels that are probable candidates for handoff

Network Identification (NID) - Number uniquely identifying a network within a cellular system

Paging Channel - Walsh code channel in the CDMA forward channel used for transmission of control information and pages from the base station to the mobile

Pilot Channel - Signal transmitted continuously by CDMA base stations allowing mobiles to acquire base station timing and assess signal quality

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Glossary Cont'd

PN Code Offset – One of 512 time offset versions of the Short PN Code used to identify CDMA base station sectors in a network

Power Amplifier (PA) – Provides gain in a transmitter

Public Switch Telephone Network (PSTN) – Collection of interconnected voice-oriented public telephone networks

Radio Frequency (RF) – Radio signals between 9 kHz-300 GHz

Registration – Process by which a mobile station identifies its location and parameters to a base station

Reverse Link – From the mobile to the base station

Short PN Code – 15-bit pseudo-random code used to uniquely identify CDMA base station sectors in a network

Short PN Code Offset – See PN Code Offset

Sync Channel – Walsh code channel 32 in the CDMA forward channel which transports the synchronization message to the mobile

System Identification (SID) – Number uniquely identifying a cellular system

Temporary Mobile Station Identity (TMSI) – Temporary mobile station identification assigned by the base station

Time Division Multiple Access (TDMA) – Multiplexing technique which uses frequency and time to distinguish users

Traffic Channel – Communicating path between a mobile station and base station used to transport call content and commands

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Glossary Cont'd

Uplink – See Reverse Link

Visitor Location Register (VLR) – Database containing mobile subscriber information for mobiles active in the local system but registered in another cellular system

Walsh Codes – 64 orthogonal codes used to define CDMA communication subchannels on the forward link

CELL/OTB 806403

CONOPS/
Legal

FBICELL-219

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WITT

CONOPS Case Studies

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WITT

Recent Case Studies - Sample Case 1

Background:

- WITT contacted to help

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CELL/OTD 004404

(U) For Official Use Only

Recent Case Studies - Sample Case 2

Background: • WITT contacted to help [redacted]
[redacted]

[redacted]

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(U) For Official Use Only

Recent Case Studies - Sample Case 3

Background: • WITT contacted to help [redacted]
[redacted]

[redacted]

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CELL/OTD 004405

(11Q1)

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Recent Case Studies - Sample Case 4

Background:

• WITT contacted to help

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CELL/OTD 000000

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FOI/PA
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[REDACTED] (FBI)

From: [REDACTED] (OTD) (FBI)
Sent: Wednesday, May 16, 2007 9:23 AM
To: [REDACTED]

Subject: [REDACTED]

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UNCLASSIFIED
NON-RECORD

I have contacted Harris and they are looking into the situation. This was looked into as part of [REDACTED]
[REDACTED]

I'll forward their (Harris) answer to all.

[REDACTED]
-----Original Message-----

From: [REDACTED]
Sent: Monday, May 14, 2007 1:09 PM
To: [REDACTED]
Cc:
Subject: [REDACTED]

UNCLASSIFIED
NON-RECORD

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UNCLASSIFIED

UNCLASSIFIED

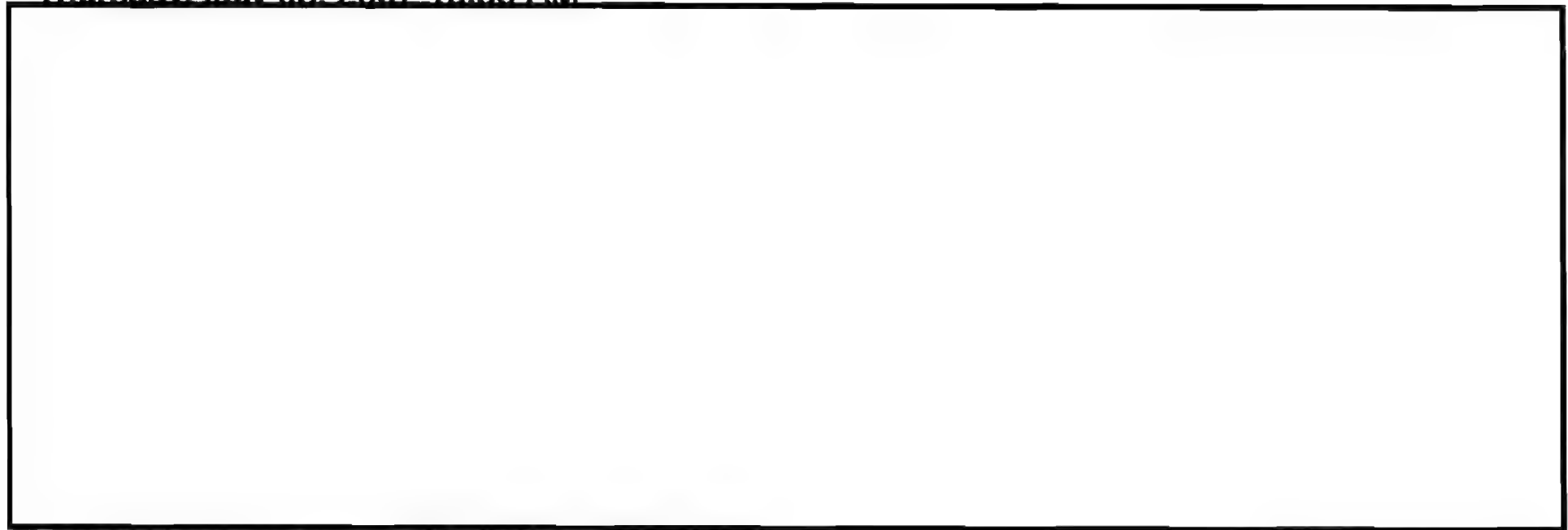
CELL/OTD 000999

[REDACTED] (OTD) (FBI)

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From:
Sent:
To:

[REDACTED] (OTD) (FBI)
Thursday, July 05, 2007 10:30 AM



Cc:
Subject:

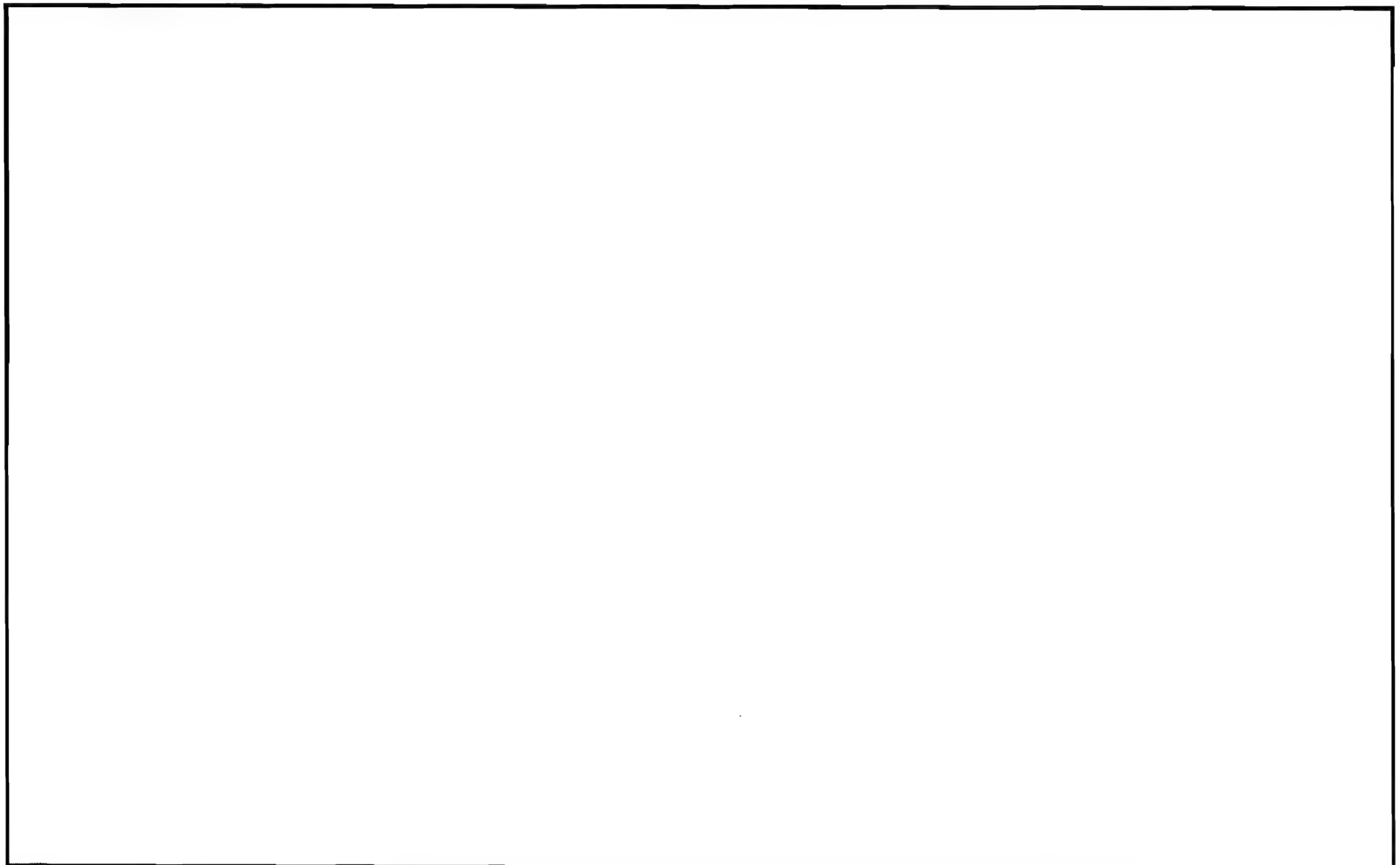
2007 WITT Conference (Cell Phone Tracking)

UNCLASSIFIED
NON-RECORD

Comrades,

Last week I attended the 2007 WITT Conference. Many cell tracking matters were discussed. Since we all hate e-mail, I am going to pick the top 15 bullets and try to keep it short. Please feel free to forward this info to [REDACTED]
[REDACTED] And if you don't want to read it, you don't hurt my feelings.

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b7E



[REDACTED] (OTD) (FBI)

From: [REDACTED]
Sent: Monday, April 16, 2007 10:48 AM
To: [REDACTED]
Cc: [REDACTED]
Subject: [REDACTED]

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SENSITIVE BUT UNCLASSIFIED
NON-RECORD

[REDACTED]
Thanks for taking the initiative to help the office out with this service. mpk

SSA [REDACTED]
[REDACTED]

b6
b7C

-----Original Message-----

From: [REDACTED]
Sent: Thursday, April 12, 2007 2:21 PM
To: [REDACTED]

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b3

Subject: [REDACTED]

For those of you who send out administrative subpoenas for telephone subscriber information, [REDACTED]

[REDACTED] As most of you are aware, a consumer is entitled to take their phone number to any phone company they so choose. [REDACTED]

[Redacted]

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<< File [Redacted] EC.wpd >>

[Redacted]

SENSITIVE BUT UNCLASSIFIED

CELL/OTD 000993

[REDACTED] (OTD) (FBI)

From:
Sent:
To:

[REDACTED]
Friday, April 27, 2007 10:14 AM

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b7C
b7E

Cc:

Subject:

New [REDACTED] for StingRa [REDACTED]

UNCLASSIFIED
NON-RECORD

Please note that the installation guide to upgrade your Harris equipment is included [REDACTED] If you are experiencing difficulty whereby the [REDACTED] please contact and email [REDACTED] us the serial number of your equipment [REDACTED]

b6
b7C
b7E

[REDACTED] Harris [REDACTED]

Stingray [REDACTED]

[REDACTED] We will provide a workaround solution to those limited few that experience this problem.

[REDACTED]
UNCLASSIFIED

CELL/OTD 000994

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From:
Sent:
To:

Monday, April 30, 2007 10:08 AM

Subject:

Additional Info on [redacted] for StingRay [redacted]

UNCLASSIFIED
NON-RECORD

Please attempt to perform the install of the [redacted] StingRay [redacted] unit first before updating the [redacted] step as described below, then [redacted] and report to us the problem and provide us the serial number of your equipment. Do not attempt to [redacted] is not successful.

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Please report to WITT when the [redacted] is completed so that we can document the procedure. Offices that do not report in will be assume to have not completed [redacted]

Thanks.

-----Original Message-----

From:
Sent:
To:

Friday, April 27, 2007 10:14 AM

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CELL/OTD 000995

FBICELL-230

Cc:

Subject:

Ne

for StingRay

UNCLASSIFIED
NON-RECORD

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b7E

Please note that the installation guide to upgrade your Harris equipment is included [redacted] if you are experiencing difficulty whereby the [redacted] please contact and email us the serial number of your equipment [redacted]

[redacted] We will provide a workaround solution to those limited few that experience this problem.

UNCLASSIFIED

UNCLASSIFIED

CELL/OTD 000996

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From:
Sent:
To:

Wednesday, May 09, 2007 1:22 PM

Subject:

[redacted] and other guidance)

SENSITIVE BUT UNCLASSIFIED
NON-RECORD

FYI

Just passing on some information about using a [redacted]
[redacted] If you all have time to verify some of the below information, please do so. Feedback is the best way to figure out where the loop-holes are.

b7E

- This means that you should not incur the [redacted]

- I verified the above information on the [redacted] If you have a chance to buy some [redacted] and are able to do the same kind of testing, please do and send feedback [redacted]

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b7E

Thanks to everyone involved so far.

CELL/OTD 000997



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SENSITIVE BUT UNCLASSIFIED

CELL/OTD 000998

CELL/OTD 027706

CELL/OTD 028079

23-Mar Travel (Arrive)

Inform Coordinator of arrival / Issues

Equipment Delivery

24-Mar 830 Arrive / Introductions

900 Scenario Description

5

Goals / Objectives

10

Pre-Deployment Functions

5

1000 Break

1015

1100

1200 Lunch (1.5 HOURS)

1330

1430

1530

1630

25-Mar 830 Arrive / Issues

900

1100

1200 Lunch (1.5 HOURS)

1330

1630

26-Mar 830 Arrive Station

??

27-Mar 830

??

28-Mar 1200 Lunch (1.5 HOURS)

2100 Event

29-Mar NO EVENT

30-Mar 830 Arrive / Issues

900

1100

1200 Lunch (1.5 HOURS)

1330 In-house Demonstrations / Exercises

1630 End

31-Mar Practice Sessions

1-Apr Practice Sessions

2-Apr Practice Sessions / Pickup (Noon)

3-Apr Travel (Return)

b3
b7E

CELL/OTD 004543

~~SECRET~~//ORCON/NOFORN//20350319

(S)

[Redacted]

By

FEDERAL BUREAU OF INVESTIGATION

[Redacted]

2010

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CLASSIFIED BY 65179 DMH/STW
REASON: 1.4 (C, G)
DECLASSIFY ON: 11-26-2037
DATE: 11-26-2012

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Approved by

Reviewed by

b7E

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controlled by originator, and not to be disseminated without prior
approval from the Federal Bureau of Investigation.*

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CELL/OTD 019338

S&T: FBI FY 2009 Mid-Year Review: Performance Report

Initiative Topic:

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Key Project, Sub- Project, or Other Component Part of Initiative	Baseline FY 2009 Funding (\$K)*	% Obligated* Includes Committed	% Expended*	Project's Contribution to Initiative
<div>(S)</div>		100%	0%	
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		100%	0%	
		100%	0%	
		100%	0%	
		<input type="text"/>	0%	
		100%	0%	

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94600 0107123

Critical Unfunded

Unit:	TTU	
Short Title:	WIRELESS INTERCEPT AND TRACKING TEAM (WITT)	
Shortfall Amount:		
Account(s):		
Cost Center:		
One-Time or Recurring Requirement		
Existing Contract(s):	YES.	
Unit Rank:	1	
SC Rank:		
AD Rank:		

b7E

Description of your shortfall:

specific amplifiers. This request shall provide capability not currently available and identified as a critical gap in locating/tracking wireless devices.

Why is this critical?

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CELL/OTD 008061

[Redacted]

Why can't you cover this with your current base funding?

[Redacted] although has insufficient funding available to cover [Redacted]
[Redacted] The cost of [Redacted] far exceeds current base funding as required.

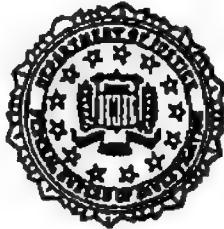
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What is the impact if you are unable to obtain funding for this?

[Redacted]

CELL/OTD 008062

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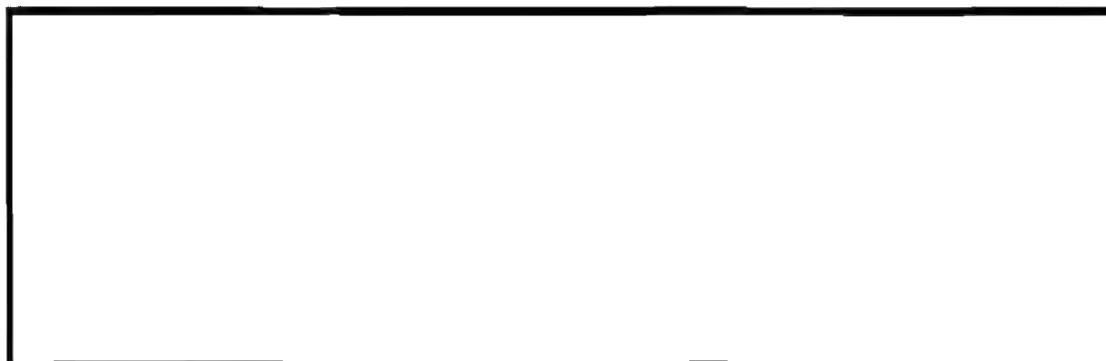
U.S. Department of Justice

Federal Bureau of Investigation

Washington, D.C. 20535-0001

[DATE], 20[YY]

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HEREIN IS UNCLASSIFIED
DATE 11-02-2012 BY 65179 DMN/STW b7E



Re: [Redacted] and Non-
Disclosure Obligations

LAW ENFORCEMENT SENSITIVE (LES): The information in this document is the property of the Federal Bureau of Investigation (FBI) and may be distributed within the Federal Government (and its contractors), U.S. intelligence, law enforcement, public safety or protection officials and individuals with a need to know. Distribution beyond these entities without FBI Operational Technology Division authorization is prohibited. Precautions should be taken to ensure this information is stored and/or destroyed in a manner that precludes unauthorized access. Information bearing the LES caveat may not be used in legal proceedings without first receiving authorization from the originating agency. Recipients are prohibited from subsequently posting the information marked LES on a website on an unclassified network.

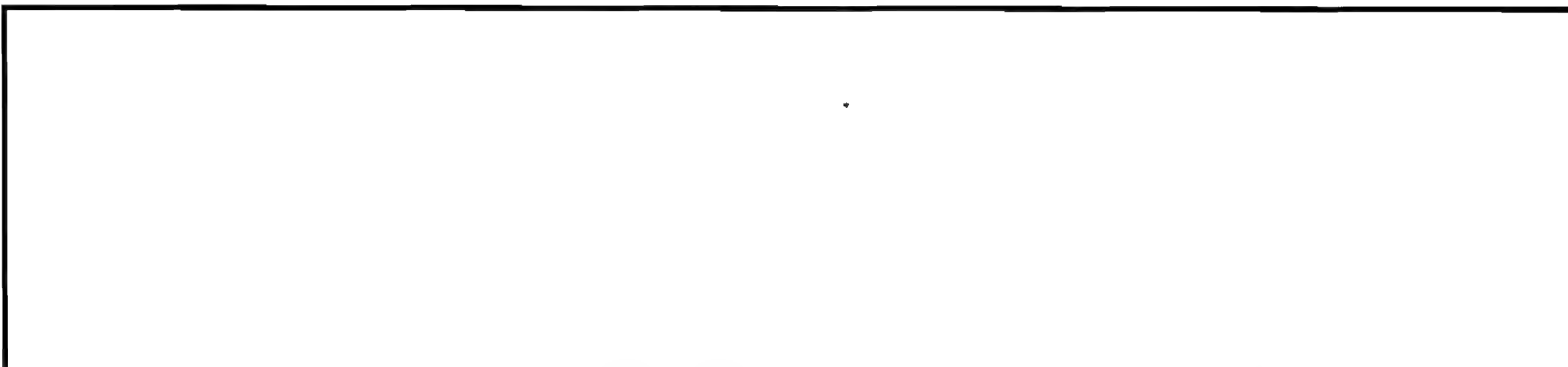
Dear [Redacted]

We have been advised by [Redacted] of the [Redacted]

[Redacted] Consistent with the conditions on the equipment

[Redacted] must coordinate with the Federal Bureau of
Investigation (FBI) to complete this non-disclosure agreement [Redacted]

b7E



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Page 1 of 6

CELL/OTD 014560

FBICELL-263

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and

Unit Chief
Tracking Technology Unit
Operational Technology Division
Federal Bureau of Investigation
Engineering Research Facility
Building 27958A, Pod B
Quantico Virginia 22135



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Page 5 of 6

CELL/OTD 014564

FBICELL-267

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The [redacted] s acceptance of the above conditions shall be evidenced by the signatures below of an authorized representative [redacted]
[redacted]

b7E

Sincerely,

Amy S. Hess
Assistant Director
Operational Technology Division
Federal Bureau of Investigation

Acknowledged and agreed to this _____ day of _____

[redacted]

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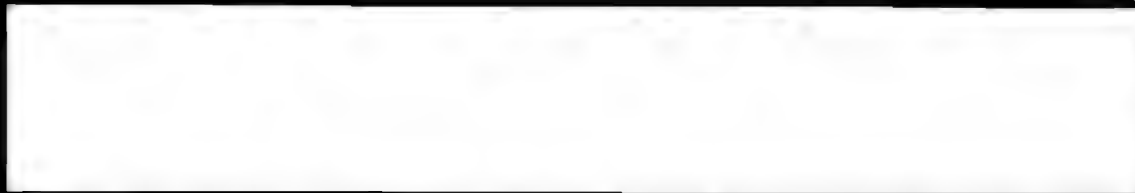
FBICELL-268

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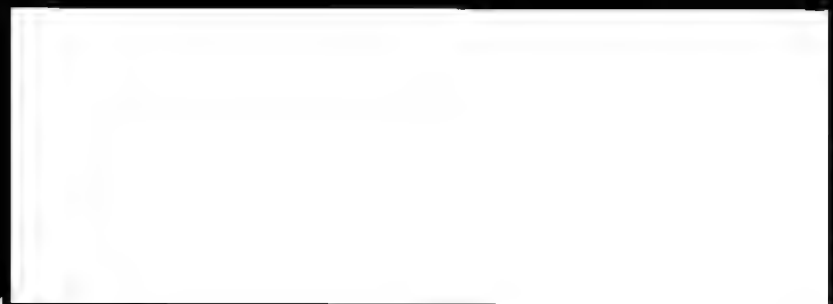


FBI Project Reviews

SECRET//NOFORN



Tracking Technology Unit



SECRET//NOFORN

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DATE: 11-14-2012

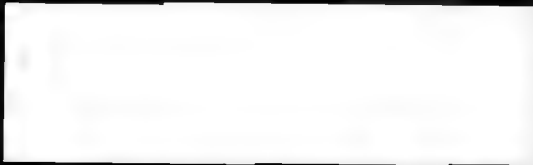
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FBI001:



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(S//NF)

OVERVIEW

Text - Arial 14

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SECRET

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CELL/ID 009879

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FBI001:



SECRET//NOFORN



(S//NF)

PROJECT IDENTIFICATION

PERFORMANCE SUMMARY

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CELL/OTD 009880

COST/FUNDING (,000)

RISKS & ISSUES

Risks:

Text - Arial 14

Issues:

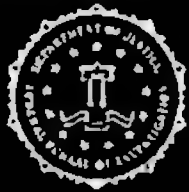
Text - Arial 14

b1
b3
b7E

B

~~SECRET~~

~~SECRET~~



FBI001:



b3
b7E

(S//NF) DEPENDENCIES & COLLABORATION

SCHEDULE

(S)

Text – Arial 14

MISSION IMPACTS & SUCCESSES

Mission Impacts:

Text – Arial 14

Success Stories:

Text – Arial 14

b1
b3
b7E

CELL/OTD 009861

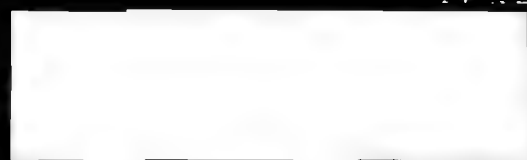
C

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FBI001:



RET/NOFORM



b3
b7E

(S//NF)

DELIVERABLES

Deliverable Description:

Text - Arial 14

Quantity:

Customers	Deliverable Type	Capability Maturity Level	Maturity Date
Text - Arial 10			

b1
b3
b7E

TECHNICAL PERFORMANCE

Text - Arial 14

D

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FBI015:

[Redacted]

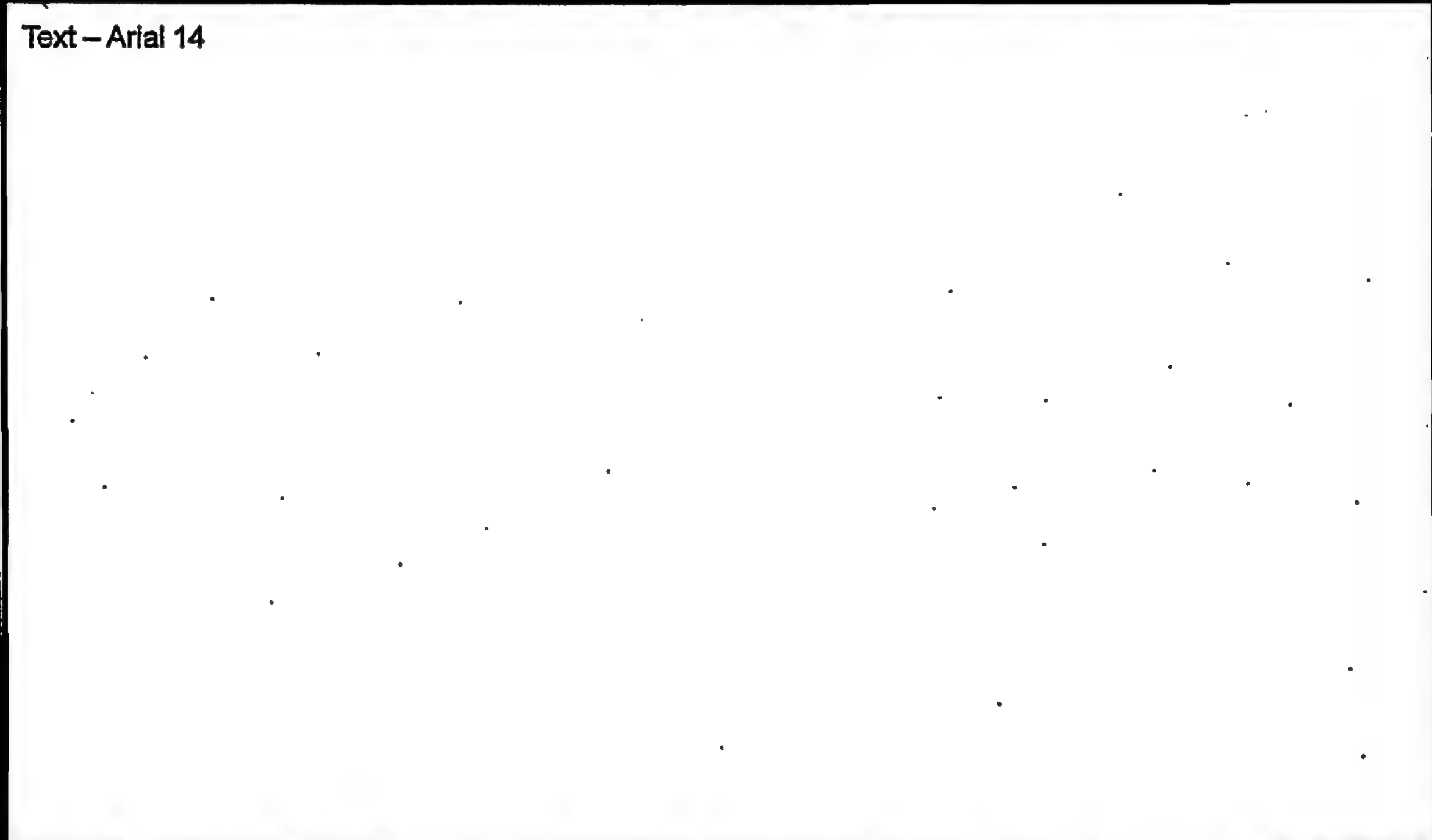


b3
b7E

(S//NF)

OVERVIEW

Text - Arial 14



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CELL/OTD 009883

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FB1015:

[Redacted]



b3
b7E

(S//NF)

PROJECT IDENTIFICATION

PERFORMANCE SUMMARY

[Redacted]

b1
b3
b7E

COST/FUNDING (.000)

RISKS & ISSUES

[Redacted]

Risks:

Text – Arial 14

Issues:

Text – Arial 14

b1
b3
b7E

B

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CELL/OTD 009884

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FBI015:



b3
b7E

(S//NF) **DEPENDENCIES & COLLABORATION**

SCHEDULE

Text – Arial 14

b1
b3
b7E

Collaboration\Level:
N/A

CUSTOMERS & REQUIREMENTS

MISSION IMPACTS & SUCCESSES

Customers/Users:
OTD/TTU

Mission Impacts:
Text – Arial 14

Requirements:

Success Stories:
Text – Arial 14

C

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CELL/OTD 009885

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FBI015:

SECRET//NOFORN



b3
b7E

(S//NF)

DELIVERABLES

Deliverable Description:

Text - Arial 14

Quantity:

Customers

**Deliverable
Type**

**Capability
Maturity Level**

**Maturity
Date**

Text - Arial 10

TECHNICAL PERFORMANCE

Text - Arial 14

D

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b1
b3
b7E

CELL/OTD 009886

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FBI016:



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b3
b7E

(S//NF)

OVERVIEW

Text - Arial 14

A

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CELL/OTD 009087

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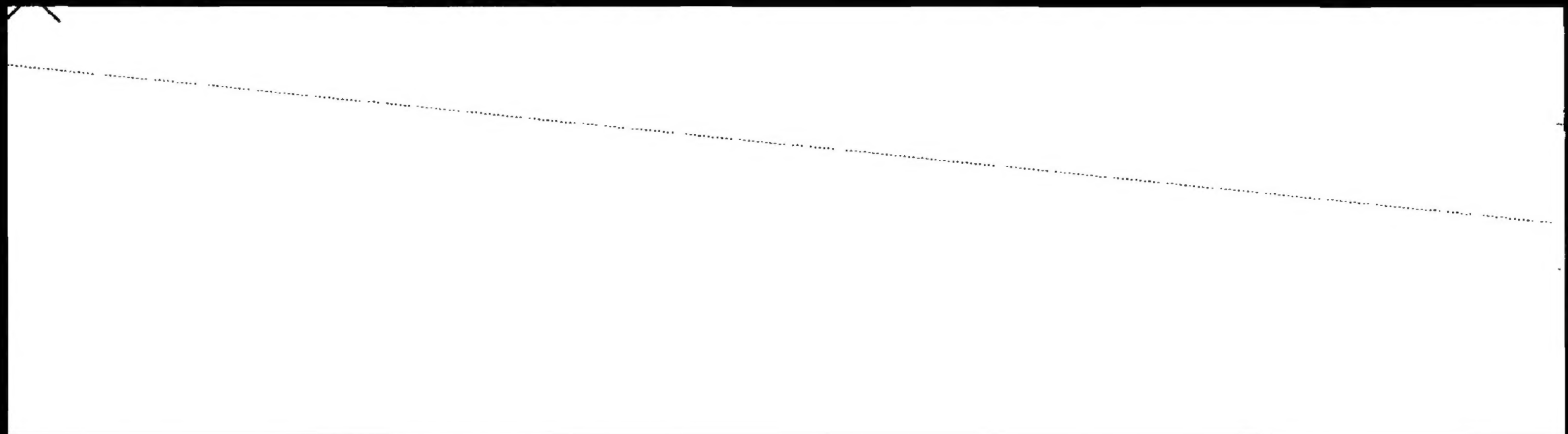
FBI016:



(S//NF)

PROJECT IDENTIFICATION

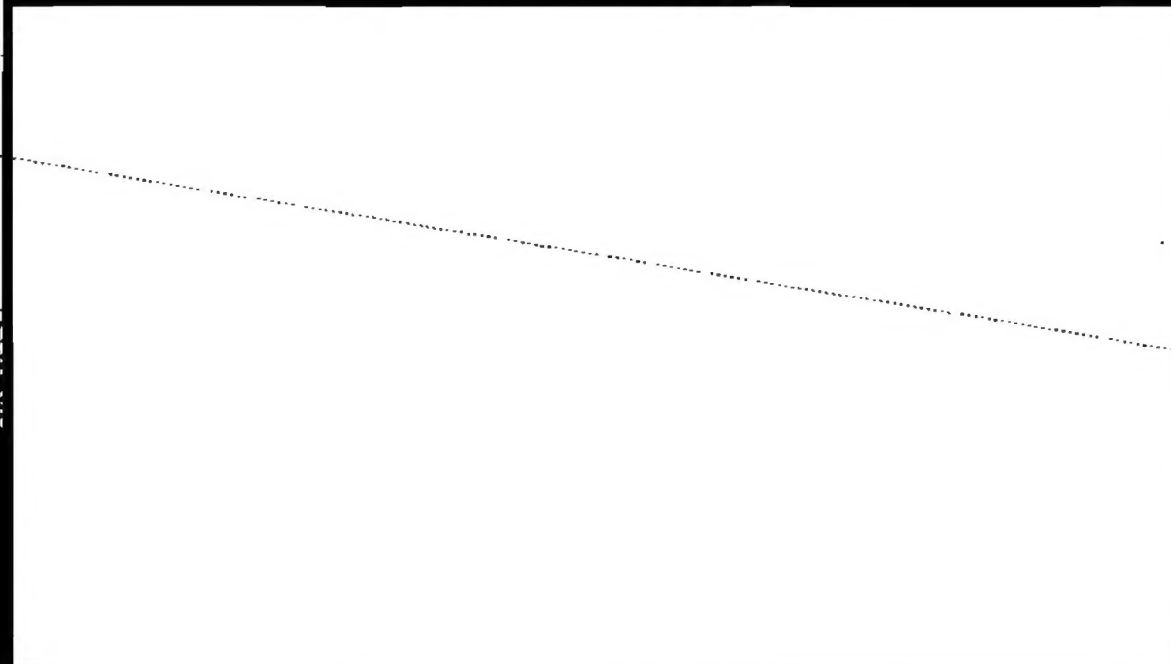
PERFORMANCE SUMMARY



b1
b3
b6
b7C
b7E

COST/FUNDING (,000)

RISKS & ISSUES



Risks:

Text - Arial 14

Issues:

Text - Arial 14

b1
b3
b7E

B

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FBI016: [Redacted]



(S/NF) DEPENDENCIES & COLLABORATION

SCHEDULE

Text – Arial 14

Collaboration\Level:
N/A

b1
b3
b7E

CUSTOMERS & REQUIREMENTS

MISSION IMPACTS & SUCCESSES

Customers/Users:
OTD/TTU

Mission Impacts:
Text – Arial 14

Requirements:

Success Stories:
Text – Arial 14

C

~~SECRET~~

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FBI016:



SECRET//NOFORN



(S//NF)

DELIVERABLES

Deliverable Description:

Text - Arial 14

Quantity:

Customers	Deliverable Type	Capability Maturity Level	Maturity Date
Text - Arial 10			

TECHNICAL PERFORMANCE

Text - Arial 14

b1
b3
b7E

069600 010713

D

SECRET//NOFORN

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